7" Horizontal Air Sander

USER'S MANUAL

⚠ WARNING:

Read carefully and understand all INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item# 15891

For technical questions and replacement parts, please call 1-800-222-5381.

Thank you very much for choosing a NORTHERN TOOL & EQUIPMENT CO., INC. Product! For future reference, please complete the owner's record below:

Model: _____ Purchase Date: _____

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. Northern Tool + Equipment strongly recommends that this machine is not modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Northern Tool + Equipment to determine if it can or should be performed on the product.

Before using this product, please read the following instructions carefully.

Technical Specifications

Specifications	
Free Speed	45,00 RPM
Max air pressure	90 PSI
Air Consumption	5.5 CFM
Air Inlet	1/4"
Air Hose	3/8"
Accessories	2 spanner
Pad Size	1/4"

GENERAL SAFETY RULES

WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The terms "tool" and "power tool" in the instructions and warnings listed below refer to your pneumatic tool.

WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

WORK AREA

- **Keep work area clean,** free of clutter and well lit. Cluttered and dark work areas can cause accidents.
- **Do not use your tool where there is a risk of causing a fire or an explosion;** e.g. in the presence of flammable liquids, gasses, or dust. Power tools create sparks, which may ignite the dust or fumes.
- **Keep children and bystanders** away while operating a power tool. Distractions can cause you to lose control, so visitors should remain at a safe distance from the work area. Do not let them handle machines, tools, extension cords, or air hoses.
- **Be aware of all power lines, electrical circuits,** water pipes and other mechanical hazards in your work area, particularly those hazards below the work surface hidden from the operator's view that may be unintentionally contacted and may cause personal harm or property damage.
- **Be alert of your surroundings.** Using power tools in confined work areas may put you dangerously close to cutting tools and rotating parts.

PERSONAL SAFETY

- **Stay alert,** watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Dress properly.** Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts. Air vents often cover moving parts and should be avoided.
- **Use safety apparel and equipment.** Use safety goggles or safety glasses with side shields which comply with current national standards, or when needed, a face shield. Use as dust mask in dusty work conditions. This applies to all persons in the work area. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate.
- **Avoid accidental starting.** Do not carry the power tool with your finger on the switch. Ensure the switch is in the off position before plugging tool into power outlet. In the event of a power failure, while a tool is being used, turn the switch off to prevent surprise starting when power is restored.
- **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines or air hoses.
- **Remove adjusting keys or wrenches** before connecting to the power supply or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may result in personal injury.

PNEUMATIC TOOL USE AND CARE

- **Do not force the tool.** Pneumatic tools do a better and safer job when used in the manner for which they are designed. Plan your work, and use the correct tool for the job.
- **Never use a tool** with a malfunctioning switch. Any power tool that cannot be controlled with the switch is dangerous and must be repaired by an authorized service representative before using.

- **Disconnect air supply** from tool and place the switch in the locked or off position before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Secure work** with clamps or a vise instead of your hand to hold work when practical. This safety precaution allows for proper tool operation using both hands.
- **Store idle tools.** When tools are not is use, store them in a dry, secure place out of the reach of children. Inspect tools for good working condition prior to storage and before re-use.
- **Use only accessories that are recommended** by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.
- **Keep guards in place** and in working order.
- **Never leave tool** running unattended.
- **USE COMPRESSED AIR ONLY.** Use clean, dry and regulated compressed air at no more than 90 PSI to power this tool. Never use oxygen, carbon dioxide or any other bottled gas as a power source for this tool.
- **Use proper size and type air pressure line and fittings**. The recommended air line for this tool is 3/8" delivering no more than 90 PSI. Recommended air inlet size is 1/4".
- **Make sure the hose** is free of obstructions or snags. Entangled hoses can cause loss of balance or footing.

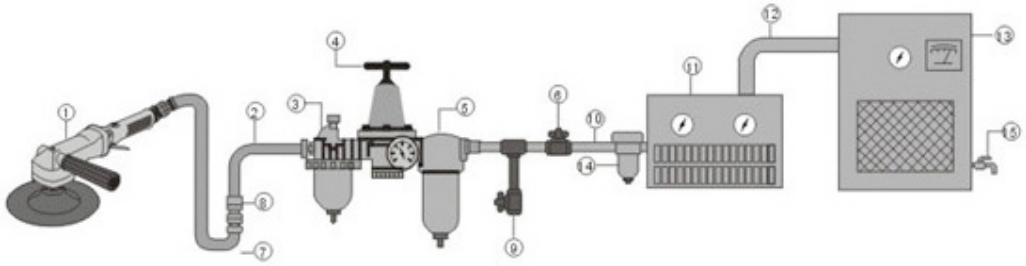
Note: Performance of the compressor (if powered by line voltage) may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.

Additional Safety Warnings

- Repetitive motions or exposure to vibration may be harmful to your hands and arms.
- When wearing gloves to operate the Horizontal Sander, make sure that the gloves do not interfere with operating the trigger. Test your gloves with the trigger before attaching the unit to an air source.
- Never start the tool unless you have a firm grip with both hands and you are positioned at your workpiece or area.
- Before using the Horizontal Sander, know what is directly underneath the work area or workpiece.
- The Horizontal Sander can quickly penetrate material. If working directly on the ground, make sure you are not directly above shallow cables, lines, or pipes.
- Never point the tool or the air hose (not included) at anyone.
- Keep your finger away from the trigger until you are ready to work.

Operation

Set Up



AIR SYSTEM LAYOUT:

1. Air Tool	6. Shut Off Valve	11. Air Dryer
2. Air Hose 3/8"(I.D.)	7. Whip Hose	12. 1" Or Larger Pipe And Fitting
3. Oiler	8. Coupler Body And Connector	13. Air Compressor
4. Pressure Regulator	9. Drain Daily	14. Auto Drain
5. Filter	10. 1/2" Or Larger Pipe And Fitting	15. Drain Daily

Fig. 1

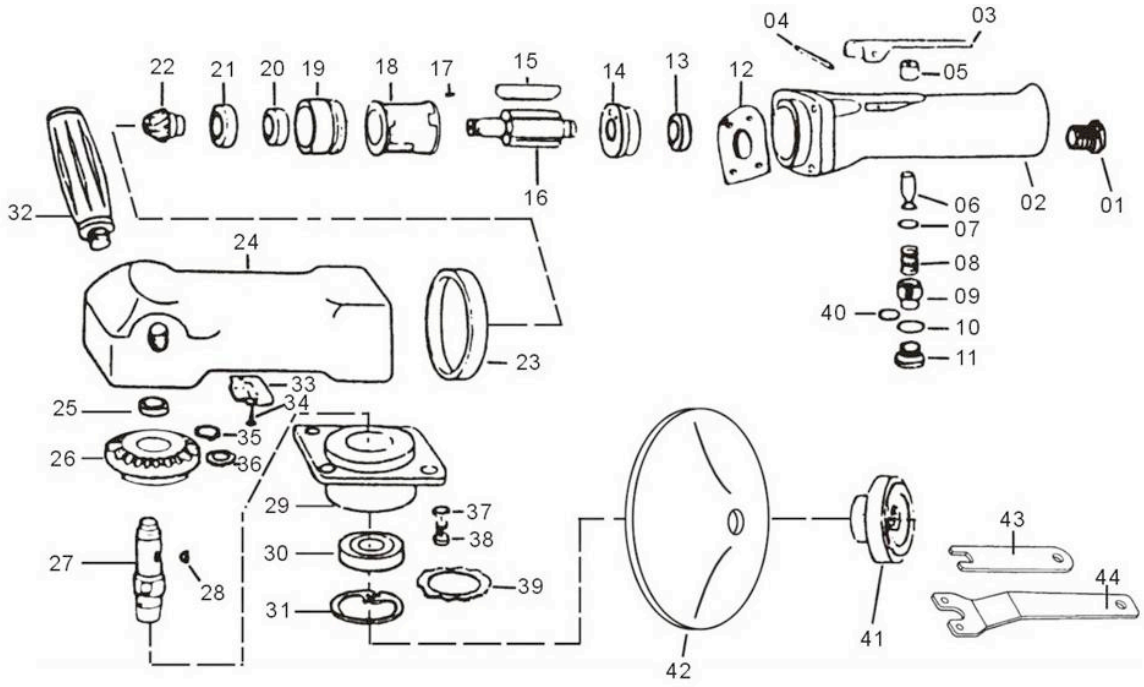
1. You will need to prepare a 1/4" air connector (sold separately) to connect to the Air Inlet. First, wrap the 1/4" air connector (not included) with pipe thread seal tape before connecting to a Air Source Hose (not included).
2. Attach air hose to the Air Inlet on the Horizontal Sander. Note: If you are not using an automatic oiler system, before operation, add a few drops of Pneumatic Tool Oil to the airline connection. Add a few drops more after each hour of continual use.
3. Set the air pressure on your compressor to 90 PSI. Do not exceed the recommended air pressure of 90 PSI.
4. Check the air connection for leaks.
5. Turn off the compressor and disconnect the air source hose in preparation to add wheels to the Horizontal Sander.

MAINTENANCE

WARNING: Make sure this tool is disconnected from its power source before attempting any maintenance, cleaning, or inspection.

- **Maintain your tools.** It is recommended that the general condition of any tool be examined before it is used. Keep your tools in good repair by adopting a program of conscientious repair and maintenance in accordance with the recommended procedures found in this manual. If any abnormal vibrations or noise occurs, turn the tool off immediately and have the problem corrected before further use. Have necessary repairs made by qualified service personnel.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control. Keep handles dry, clean, and free from oil and grease.
- **Cleaning.** Use only soap and a damp cloth to clean your tools. Many household cleaners are harmful to plastics and other insulation. Never let liquid get inside a tool.

Diagram for the Horizontal Sander



Parts List for the Horizontal Sander

Part#	Description	Qty.	Part#	Description	Qty.
1	Air Inlet	1	23	Housing Band	1
2	Valve Body	1	24	Motor Housing	1
3	Lever	1	25	Bearing	1
4	Lever Pin	1	26	Bevel Gear	1
5	Valve Bushing	1	27	Spindle	1
6	Valve Stem	1	28	Woodruff Key	1
7	O-Ring	1	29	Housing Cap	1
8	Valve Spring	1	30	Bearing	1
9	Air Controller	1	31	Retaining Ring	1
10	O-Ring	1	32	Handle	1
11	Valve Screw	1	33	Exhaust Deflector	1
12	Gasket	1	34	Exhaust Deflector Screw	1
13	Bearing	1	35	Retaining Ring	2
14	Rear End Plate	1	36	Wave Washer	1
15	Rotor Blade	4	37	Spring Washer	1
16	Rotor	1	38	Screw	4
17	Cylinder Pin	1	39	Wave Washer	4
18	Cylinder	1	40	O-Ring	1
19	Front End Plate	1	41	Lock Nut	1
20	Bearing	1	42	7" Sanding Pad	1
21	Bearing	1	43	Wrench	1
22	Pinion	1	44	Wrench	1

⚠ WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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